Docket No.: 51876P609

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

In Re the Application of:	
Mangu Kang, et al.	Art Group:
Application No.:	F

Filed:

For: dye-sensitized solar cells including liquid type imidazolium electrolyte

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

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51876P609

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date:	Ulslog

Respectfully submitted,

BLAKELY, SOKOLDFF, TAYLOR & ZAFMAN LLP

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Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE			\OUDE	Application Number	
			JOURE	Filing Date	
STATEMENT BY APPLICANT		First Named Inventor	Mangu Kang		
(use as many sheets as necessary)				Art Unit	
			ary)	Examiner Name	
Sheet	1	of	2	Attorney Docket Number	51876P609

		·	U.S. PATI	ENT DOCUMENTS	
Examiner	Cite	Document Number	Publication Date or Issue Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Initials*	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Figures Appear
		US-6245988 B1	06-12-2001	Gratzel et al.	
		US-4927721	05-22-1990	Gratzel et al.	
		US-5728487	03-17-1998	Gratzel et al.	
		US-			

		FOI	REIGN PATENT	DOCUMENTS		-
Examiner Cite	Foreign Patent Document			Pages, Columns, Lines,	т	
Initials*	No.¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		2003-0065957	08-09-2003			
		2003-0032538	04-26-2003			
		2002-0078291	10-18-2002			
		2001-160426	06-12-2001			
		2001-160427	06-12-2001			
					1	

Examiner	Date	
Signature	Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE			CLIDE	Application Number		
			SUKE	Filing Date		
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(use as many sheets as necessary)			• , ,,,,,,	Art Unit		
(use as many sheets as necessary)		Examiner Name				
Sheet	2	of	2	Attorney Docket Number	51876P609	

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
		Nature, Vol. 353, No. 24, October 1991, pages 737-739					
		Inorg. Chem. Vol. 35, 1996, pages 1168-1178					
		J.Am. Ceram. Soc. Vol. 80, No. 12, 1997, pages 3157-3171					
		Solar Energy Materials & Solar Cells, vol. 70, 2001, pages 151-161					

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Examiner	 Date		
Signature	Considered	1	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Information Disclosure Statement

New U.S. Patent Application for DYE-SENSITIZED SOLAR CELLS INCLUDING LIQUID TYPE IMIDAZOLIUM ELECTROLYTE Our Ref. No.: P03EB024/US/jy

Reference No.:

- (1) KR Laid-Open No. 2003-65957
- (2) KR Laid-Open No. 2003-32538
- (3) KR Laid-Open No. 2002-78291
- (4) US Patent No. 6,245,988
- (5) US Patent No. 4,927,721
- (6) US Patent No. 5,728,487
- (7) JP Laid-Open No. 2001-160426
- (8) JP Laid-Open No. 2001-160427
- (9) A low-cost high-efficiency solar cell based on dye-sensitized colloidal TiO₂ films (Nature, Vol. 353, No. 24, October 1991, Pages 737-739)
- (10) Hydrophobic, Highly Conductive Ambient-Temperature Molten Salts (Inorg. Chem. Vol. 35, 1996, Pages 1168-1178)
- (11) Nanocrystalline Titanium Oxide Electrodes for Photovoltaic Applications (J.Am. Ceram. Soc. Vol. 80, No. 12, 1997, Pages 3157-3171)
- (12) Influence of Electrolytes on the photovoltaic performance of organic dye-sensitized nanocrystalline TiO₂ solar cells (Solar Energy Materials & Solar Cells, Vol. 70, 2001, Pages 151-161)